

COMMONWEALTH of VIRGINIA

DEPARTMENT OF ENVIRONMENTAL QUALITY SOUTHWEST REGIONAL OFFICE

Matthew J. Strickler Secretary of Natural Resources 355 - A Deadmore Street, Abingdon, Virginia 24210 (276) 676-4800 Fax (276) 676-4899 www.deq.virginia.gov

David K. Paylor Director

Jeffrey Hurst Regional Director

June 8, 2018

Mr. Brian C. Sheppard Vice-President, Eastern Pipeline Operations Dominion Energy Transmission, Inc. 925 White Oaks Boulevard Bridgeport, West Virginia 26330

Location: Loudoun County, Virginia

Registration No. 71978

Dear Mr. Sheppard:

Attached is an administrative amendment to the July 23, 2015 permit to operate your Leesburg Compressor Station pursuant to 9 VAC 5 Chapter 80, Article 1, of the Virginia Regulations for the Control and Abatement of Air Pollution. This permit amendment reflects a correction to the description of the two compressor engines referenced in Condition 22.b pursuant to 9VAC5-80-200 A.1. This amended permit document replaces the permit modification issued on April 3, 2018, however, the expiration date remains unchanged.

This amended permit contains legally enforceable conditions. Failure to comply may result in a Notice of Violation and civil charges. <u>Please read all conditions carefully.</u>

In evaluating the administrative amendment request and arriving at a final decision for approval, the Department deemed the application complete on March 23, 2018.

This permit amendment approval does not relieve Dominion Energy Transmission, Inc. of the responsibility to comply with all other local, state, and federal permit regulations.

Issuance of this permit amendment is a case decision. The <u>Regulations</u>, at 9 VAC 5-170-200, provide that you may request a formal hearing from this case decision by filing a petition

Mr. Brian C. Sheppard June 8, 2018 Page 2

with the Board within 30 days after this permit amendment is mailed or delivered to you. Please consult that and other relevant provisions for additional requirements for such requests.

Additionally, as provided by Rule 2A:2 of the Supreme Court of Virginia, you have 30 days from the date you actually received this permit amendment or the date on which it was mailed to you, whichever occurred first, within which to initiate an appeal to court by filing a Notice of Appeal with:

David K. Paylor, Director Department of Environmental Quality P. O. Box 1105 Richmond, VA 23218

In the event that you receive this permit amendment by mail, three days are added to the period in which to file an appeal. Please refer to Part Two A of the Rules of the Supreme Court of Virginia for additional information including filing dates and the required content of the Notice of Appeal.

If you have any questions concerning this permit amendment, please call James LaFratta at (703) 583-3928.

Sincerely

Rob Feagins'

Air Permit Manager

Southwest Regional Office

Attachment: Permit

cc: Director, OAPP (electronic file submission)

Manager, Data Analysis (electronic file submission)

Office of Permits and Air Toxics, U.S. EPA, Region III (electronic file submission)



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Federal Operating Permit Article 1

This permit is based upon the requirements of Title V of the Federal Clean Air Act and Chapter 80, Article 1 of the Commonwealth of Virginia Regulations for the Control and Abatement of Air Pollution. Until such time as this permit is reopened and revised, modified, revoked, terminated or expires, the permittee is authorized to operate in accordance with the terms and conditions contained herein. This permit is issued under the authority of Title 10.1, Chapter 13, §10.1-1322 of the Air Pollution Control Law of Virginia. This permit is issued consistent with the Administrative Process Act and 9 VAC 5-80-50 through 9 VAC 5-80-300 of the State Air Pollution Control Board Regulations for the Control and Abatement of Air Pollution of the Commonwealth of Virginia.

Authorization to operate a Stationary Source of Air Pollution as described in this permit is hereby granted to:

Permittee Name:

Dominion Energy Transmission, Inc.

Facility Name:

Leesburg Compressor Station

Facility Location:

40620 Consolidated Lane, Leesburg, Virginia 20175

Registration Number:

71978

Permit Number:

NRO71978

This permit includes the following programs:

Federally Enforceable Requirements — Clean Air Act (Pages 1 through 32)

July 23, 2015

June 8, 2018

July 22, 2020

Effective Date

Amendment Date

Expiration Date

Laffray Hurch

June 8, 2018

Southwest Regional Office Director

Signature Date (as amended)

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Facility Information

Permittee

Dominion Energy Transmission, Inc. 925 White Oaks Boulevard Bridgeport, West Virginia 26330

Responsible Official

Brian Sheppard Vice-President, Eastern Pipeline Operations

Facility

Leesburg Compressor Station 40620 Consolidated Lane Leesburg, Virginia 20175

Contact Person

Abby Credicott
Abby.M.Credicott@dominionenergy.com
5000 Dominion Boulevard
Glen Allen, Virginia 23060

County-Plant Identification Number: 51-107-01016

Facility Description: NAICS Code 48621 - The Leesburg Compressor Station is a natural gas transmission facility. Natural gas is received via pipelines from upstream compression stations, compressed, and pumped into outlet pipelines for transmission downstream. The Leesburg facility utilizes two natural gas-fired stationary reciprocating 2 stroke spark ignition internal combustion (SIIC) engines, each rated at 3,010 horsepower (hp), and one combustion turbine rated at 8,036 hp to drive the natural gas compressors. The two reciprocating internal combustion engines are each equipped with an oxidation catalyst to control carbon monoxide emissions. The turbine is equipped with a low-NO_x burner to control NO_x emissions, and a continuous emission monitoring system (CEMS). Auxiliary equipment at the facility includes one 2.75 MMBtu/hr natural gas-fired boiler used for space heating and one 550 hp natural gas-fired engine-generator set used for emergency purposes.

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Emission Units

Table 1. Equipment to be operated consists of:

Emission Unit ID	Stack ID	Emission Unit Description	Size/Rated Capacity*	Pollution Control Device Description (PCD)	PCD ID	Pollutant Controlled	Applicable Permit Date
		Intera	nal Combustion Sou	ırces			
TUR01	S05	Solar Taurus Model 60 Model Natural Gas-fired Turbine (Constructed 2004)	8036 HP (Power Output) 58.1 MMBtu/Hr (Heat Input)	Solar SoloNOx Burner Combustion Control (Constructed 2004)	C03	NO _x	1/28/15 NSR Permit
EN01	S01	Dresser Rand Model TLAD8 Natural Gas-fired 2-stroke Lean Burn SIIC* Compressor Engine (Constructed 1992)	3,010 HP (Power Output) 24.08 MMBtu/Hr (Heat Input)	DCL Oxidation Catalyst, or equivalent (constructed 2017)	C01	СО	1/28/15 NSR Permit
EN02	S02	Dresser Rand Model TLAD8 Natural Gas-fired 2-stroke Lean Burn SIIC Compressor Engine (Constructed 1992)	3,010 HP (Power Output) 24.08 MMBtu/Hr (Heat Input)	DCL Oxidation Catalyst, or equivalent (constructed 2017)	C02	СО	1/28/15 NSR Permit
AUX01	S03	Caterpillar Model 3508 Natural Gas-fired 4-stroke Lean Burn SIIC Auxiliary Emergency Engine Generator (Constructed 1992)	550 HP (Power Output) 4.4 MMBtu/Hr (Heat Input)				1/28/15 NSR Permit
	Fuel Burning Equipment						
B01	S04	Ajax Model WGFD-2750 Natural Gas- fired Boiler (Constructed 1992)	2.75 MMBtu/Hr (Heat Input)			- 	1/28/15 NSR Permit

^{*}SIIC - Spark Ignition Internal Combustion

^{*}The Size/Rated capacity is provided for informational purposes only, and is not an applicable requirement.

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Fuel Burning Equipment Requirements - (Emission Unit TUR01)

- 1. Fuel Burning Equipment Requirements (Emission Unit TUR01) Limitations Nitrogen Oxides Controls Nitrogen oxides (as NO₂) emissions from the combustion turbine, TUR01, shall be controlled by Solar's SoLoNOx burner (a dry-low NO_x burner). (9 VAC 5-80-110 and Condition 2 of 1/28/2015 NSR Permit)
- 2. Fuel Burning Equipment Requirements (Emission Unit TUR01) Limitations Fuel The approved fuel for the combustion turbine, TUR01, is pipeline natural gas as defined in 40 CFR §72.2. A change in the fuel may require a permit to modify and operate. (9 VAC 5-80-110, §40 CFR 60.333, and Condition 3 of 1/28/2015 NSR Permit)
- 3. Fuel Burning Equipment Requirements (Emission Unit TUR01) Limitations Fuel Throughput The combustion turbine, TUR01, shall consume no more than 517 million cubic feet of pipeline natural gas per year, calculated monthly as the sum of each consecutive twelve-month period. See Condition 12.i for recordkeeping requirements to demonstrate compliance with the consecutive twelve-month period. (9 VAC 5-80-110 and Condition 4 of 1/28/2015 NSR Permit)
- 4. Fuel Burning Equipment Requirements (Emission Unit TUR01) Limitations Emission Limits Emissions from the operation of the combustion turbine, TUR01, shall not exceed the limits specified below:

Pollutant	Annual Emission Limits	Emission Limits* (Inlet temperature at and above 0°F)	Emission Limits** (Inlet temperature below 0°F)
Nitrogen Oxides (as NO ₂)	23.9 tons/yr	6.5 lbs/hr 25 ppmvd @ 15% O ₂ (1-hour average)	31.6 lb/hr 150 ppmvd @15% O ₂ (1-hour average)
Carbon Monoxide	31.9 tons/yr	-	-
Volatile Organic Compounds (VOC)	3.5 tons/yr	· -	•
Particulate Matter (PM)	10.8 tons/yr	-	-
Particulate Matter-10	10.8 tons/yr	-	<u>-</u>
Formaldehyde	0.24 tons/yr	•	-

^{*} This limit applies for all whole clock hours when turbine inlet temperatures (i.e., ambient temperatures) are greater than or equal to 0°F.

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** This limit applies for all clock hours in whole or in part when the turbine inlet temperatures are below 0°F.

Exceedance of the fuel throughput (Condition 3) shall be considered credible evidence of the exceedance of annual emission limits.

(9 VAC 5-80-110, 40 CFR §60.332, and Condition 5 of 1/28/2015 NSR Permit)

5. Fuel Burning Equipment Requirements - (Emission Unit TUR01) - Limitations - Visible Emission Limit - Visible emissions from the combustion turbine, TUR01, shall not exceed five percent (5%) opacity, except for a one six-minute interval in any one hour of not more than ten percent opacity, as determined by EPA Method 9 (reference 40 CFR 60, Appendix A). This condition applies at all times except during startup, shutdown, and malfunction. Compliance with this condition shall be demonstrated by complying with the requirements in Condition 2 and the operation and maintenance requirements in Condition 52.

(9 VAC 5-80-110 and Condition 6 of 1/28/2015 NSR Permit)

- 6. Fuel Burning Equipment Requirements (Emission Unit TUR01) Limitations Requirements by Reference Except where this permit is more restrictive than the applicable requirement, the combustion turbine, TUR01, shall operate in compliance with the requirements of 40 CFR 60, Subpart GG Standards of Performance for Stationary Gas Turbines and 40 CFR 60 Subpart A General Provisions.

 (9 VAC 5-80-110 and Condition 7 of 1/28/2015 NSR Permit)
- 7. Fuel Burning Equipment Requirements (Emission Unit TUR01) Monitoring Continuous Emissions Monitoring System (CEMS) for Nitrogen Oxides (NO_x) A NO_x CEMS shall measure and record the NO_x emissions from the combustion turbine. The NO_x CEMS data shall be used to determine compliance with NO_x limits in Condition 4. Malfunction of the CEMS may be grounds for the Department of Environmental Quality (DEQ) to request that a stack test be performed to determine compliance. This condition does not exempt the permittee from other applicable state and federal monitoring requirements.

(9 VAC 5-80-110 E, 40 CFR §60.334(c), and Condition 8.a. of 1/28/2015 NSR Permit)

8. Fuel Burning Equipment Requirements - (Emission Unit TUR01) - Monitoring - Continuous Emissions Monitoring System (CEMS) for Nitrogen Oxides (NO_x) - A CEMS quality control program, which meets the requirements of 40 CFR §60.13 and Appendix B, and F, as applicable, shall be implemented for all continuous monitoring systems.

(9 VAC 5-80-110 E, §40 CFR 60.334(c), and Condition 8.b. of 01/28/2015 NSR Permit)

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- 9. Fuel Burning Equipment Requirements (Emission Unit TUR01) Monitoring Sulfur Content The source shall meet the monitoring requirements of 40 CFR §60.334(h) for total sulfur content of the natural gas fired in the combustion turbine. (9 VAC 5-80-110 E, 40 CFR §60.334(h), and Condition 9 of 1/28/2015 NSR Permit)
- 10. Fuel Burning Equipment Requirements (Emission Unit TUR01) Turbine Inlet Temperature Monitoring The turbine inlet temperature shall be monitored continuously when the NO_x hourly emission limit of 31.6 lbs/hr is in effect. This emission limit is in effect when the combustion turbine inlet temperature is below 0°Fahrenheit. A record of the temperatures shall be kept in accordance with Condition 12. (9 VAC 5-80-110 E and Condition 11 of 1/28/2015 NSR Permit)
- 11. Fuel Burning Equipment Requirements (Emission Unit TUR01) Turbine Engine Speed Monitoring When the engine speed is less than or equal to 88% gas producer speed, the startup/shutdown cycle time lengths will be recorded. If any of the following results in an exceedance of an emission limit or limits, then the permittee shall follow Condition 14:
 - a. Startup time is greater than 9 minutes;
 - b. Shutdown time is greater than 5 minutes;
 - c. Greater than 365 startup/shutdown cycles were performed in a consecutive twelvemonth period per Condition 12.i.
 - (9 VAC 5-50-40 and Condition 12 of 1/28/2015 NSR Permit)
- 12. Fuel Burning Equipment Requirements (Emission Unit TUR01) On-Site Records The permittee shall maintain records of emission data and operating parameters as necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the Regional Air Compliance Manager of the DEQ's NRO. These records shall include, but are not limited to the following:
 - a. The engine speed data as required in Condition 11.
 - b. CEMS emissions data for NO_x from the combustion turbine, as required in Condition 7.
 - c. Emissions data for PM, nitrogen oxides, carbon monoxide, and VOC from the combustion turbine's stack using calculation methods approved by the Regional Air Compliance Manager of the DEQ's NRO to verify compliance with the annual emission limits in Condition 4.

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d. Annual consumption of natural gas calculated monthly as the sum of each consecutive twelve-month period.

- e. Turbine inlet temperature data as required in Condition 10.
- f. Documentation that the pipeline natural gas meets the definition in 40 CFR §72.2, in accordance with the sulfur content monitoring or demonstration requirements described in NSPS Subpart GG (40 CFR 60.334(h)).
- g. Results of all stack tests and visible emission evaluations.
- h. Scheduled and unscheduled maintenance, and operator training in accordance with Condition 52.
- i. Where applicable, compliance for the consecutive twelve-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding eleven months.

These records shall be available for inspection by the DEQ and shall be current for the most recent five years.

(9 VAC 5-170-160, 9 VAC 5-80-110, and Condition 15 of 1/28/15 NSR Permit)

13. Fuel Burning Equipment Requirements - (Emission Unit TUR01) - Testing - Testing conducted in addition to the monitoring specified in this permit shall use the following test methods in accordance with procedures approved by the DEQ as follows:

Pollutant	Test Method (40 CFR Part 60, Appendix A)
NO _x	EPA Test Method 20; or ASTM D6522-00; or EPA Methods 7E and EPA Methods 3 or 3A; See 40 CFR §60.335
Visible Emissions	EPA Test Method 9

The ISO correction factor in $\S60.335(c)(1)$ does not apply to dry-low NO_x burners. Therefore, ambient condition correction factors may be developed to adjust the NO_x emission level measured by the performance test as provided in $\S60.8$ to ISO standard day conditions. These factors shall be substantiated with date and must be approved for use by the DEQ Air Compliance Manager before the performance test.

ASTM D 1072-80 or 90, D 3031-81, D 4084-82 or 94, or D 3246-81, 92, or 96 shall be used to determine compliance with the sulfur content of gaseous fuels. (9 VAC 5-80-110 and Condition 16 of 1/28/2015 NSR Permit)

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- 14. Fuel Burning Equipment Requirements (Emission Unit TUR01) Reporting Reports for Excess Emissions The permittee shall furnish written reports of excess emissions on a quarterly basis to the Regional Air Compliance Manager of the DEQ's NRO, postmarked no later than the 30th day following the end of each calendar quarter. These reports shall include, but are not limited to the following information:
 - a. The magnitude of excess emissions, any conversion factors used in the calculation of excess emissions, and the date and time of commencement and completion of each period of excess emissions;
 - b. Specific identification of each period of excess emissions that occurs during startup (if greater than nine minutes), shutdown (if greater than five minutes), or malfunctions of the process, the nature and cause of the malfunction (if known), the corrective action taken or preventative measures adopted;
 - c. When no excess emissions have occurred or the continuous monitoring systems have not been inoperative, repaired or adjusted, such information shall be stated in that report.

(9 VAC 5-80-110, 40 CFR 60.334(j), and Condition 14 of 1/28/2015 NSR Permit)

Fuel Burning Equipment Requirements - (Emission Units EN01 and EN02)

- 15. Fuel Burning Equipment Requirements (Emission Units EN01 and EN02) Limitations CO Emission Controls Carbon monoxide (CO) emissions from the compressor engines, EN01 and EN02, shall be controlled by an oxidation catalyst. The catalyst on each unit shall be provided with adequate access for inspection when the respective engines are not operating. Operational status of the oxidation catalyst shall be confirmed in accordance with the requirements of Condition 25.

 (9 VAC 5-80-110 and Condition 17 of 1/28/2015 NSR Permit)
- 16. Fuel Burning Equipment Requirements (Emission Units EN01 and EN02) Limitations Fuel The approved fuel for the two compressor engines, EN01 and EN02, is pipeline natural gas as defined in 40 CFR §72.2. A change in the fuel may require a permit to modify and operate.
 (9 VAC 5-80-110 and Condition 18 of 1/28/2015 NSR Permit)
- 17. Fuel Burning Equipment Requirements (Emission Units EN01 and EN02) Limitations Fuel Throughput The two compressor engines, EN01 and EN02, shall in combination consume no more than 380 million cubic feet of natural gas per year, calculated monthly as the sum of each consecutive twelve-month period. See Condition 27.h for record keeping requirements to demonstrate compliance with the consecutive twelve-month period.

(9 VAC 5-80-110 and Condition 19 of 01/28/2015 NSR Permit)

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18. Fuel Burning Equipment Requirements - (Emission Units EN01 and EN02) - Limitations - Emission Limits - Emissions from the operation of each compressor engine, EN01 and EN02, shall not exceed the limits specified below:

Pollutant	Emission Limits*	Emission Limits*	Annual Emission Limits
Nitrogen Oxides (as NO ₂)	1.5 g/bhp-hr	10.0 lbs/hr	44 tons/yr
Carbon Monoxide		10.8 lbs/hr	48 tons/yr
Volatile Organic Compounds	0.46 g/bhp-hr	3.0 lbs/hr	14 tons/yr
Formaldehyde		1.1 lbs/hr	4.7 tons/yr

^{*}Averaged over a three hour period.

Annual emissions shall be calculated monthly as the sum of each consecutive twelvemonth period using the actual engine operating hours, the rated engine horsepower output capacity, and the DEQ approved pollutant-specific emission factors and equations. See Condition 27.h for recordkeeping requirements to demonstrate compliance with the consecutive twelve-month period.

(9 VAC 5-80-110, Condition 23 of 1/28/2015 NSR Permit and Condition 3 of 5/22/00 RACT Permit)

- Fuel Burning Equipment Requirements (Emission Units EN01 and EN02) Limitations Visible Emission Limit Visible emissions from each of the compressor engines, EN01 and EN02, shall not exceed five percent opacity, as determined by EPA Method 9 (reference 40 CFR 60, Appendix A).
 (9 VAC 5-80-110 and Condition 26 of 1/28/2015 NSR Permit)
- 20. Fuel Burning Equipment Requirements (Emission Units EN01 and EN02) -Limitations - The permittee shall conduct the following activities on compressor engines, EN01 and EN02:
 - a. Change oil and filter every 4,320 hours of operation or annually, whichever comes first or utilize an oil analysis program as described in 40 CFR §63.6625 (i) or (j) to extend the specified oil change requirement.
 - b. Inspect spark plugs every 4,320 hours of operation or annually, whichever comes first, and replace as necessary.

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c. Inspect all hoses and belts every 4,320 hours of operation or annually, whichever comes first, and replace as necessary.

(9 VAC 5-80-110 and 40 CFR §63.6603 (a))

- 21. Fuel Burning Equipment Requirements (Emission Units EN01 and EN02) Limitations The permittee shall operate the compressor engines, EN01 and EN02, according to requirements in 40 CFR §63.6605.

 (9 VAC 5-80-110 and 40 CFR §63.6605)
- 22. Fuel Burning Equipment Requirements (Emission Units EN01 and EN02) Limitations The permittee shall:
 - a. Operate and maintain the compressor engines (EN01 and EN02) and oxidation catalyst according to the manufacturer's emission-related operation and maintenance instructions; or
 - b. Develop and follow the permittee's own maintenance plan which must provide, to the extent practicable, for the maintenance and operation of the compressor engines (EN01 and EN02) and oxidation catalyst in a manner consistent with good air pollution control practice for minimizing emissions.

(9 VAC 5-80-110, 40 CFR §63.6625(e), and 40 CFR §63.6640(a))

- 23. Fuel Burning Equipment Requirements (Emission Units EN01 and EN02) Limitations The permittee shall minimize the engines' (EN01 and EN02) time spent at idle during startup and minimize the startup time to a period needed for appropriate and safe loading of the engine not to exceed 30 minutes after which time the emission standards applicable to all times other than startup apply.

 (9 VAC 5-80-110 and 40 CFR §63.6625(h))
- 24. Fuel Burning Equipment Requirements (Emission Units EN01 and EN02) Monitoring Operating Hours The engines shall be equipped with a non-resettable hour meter or equivalent data acquisition system.

 (9 VAC 5-80-110)
- 25. Fuel Burning Equipment Requirements (Emission Units EN01 and EN02) Monitoring Temperature and Pressure The permittee shall monitor the temperature of the exhaust gas entering the oxidation catalyst and pressure drop across the oxidation catalyst for each engine. Observations of inlet temperature and pressure drop across the oxidation catalyst for each engine shall be recorded at least once each month while the respective engine is operating, and while a facility operator is on site. The inlet temperature of the catalyst shall be no less than 450 °F and no greater than 750 °F and the pressure drop across the oxidation catalyst shall be no greater than 2 inches water column higher than baseline (0 inches water column) unless the catalyst manufacturer specifies a

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different range of temperature or pressure drop, in which case the permittee shall comply with the range specified by the manufacturer and maintain records on site of the new specified range. The permittee shall provide written notification to the Regional Air Compliance Manager of the DEQ's NRO of any change in operating temperature or pressure based on manufacturer specification within 15 days of such change.

- a. If either the oxidation catalyst inlet temperature or pressure drop readings monitored pursuant to Condition 25 above indicate an excursion outside of the established acceptable ranges, the permittee shall:
 - 1) Verify that the oxidation catalyst system(s) is operating according to manufacturer's specifications, or other site-specific acceptable operating conditions.
 - 2) If the control device is not operating properly, the permittee shall take corrective action immediately to rectify the excursion. The permittee shall measure the oxidation catalyst inlet temperature and pressure drop across the oxidation catalyst after taking corrective action to document that the control system is operating properly.
- b. If the corrective action in Condition 25.a above does not rectify the monitoring parameter excursion, the permittee shall conduct compliance testing to determine if the emissions are in compliance with the applicable emission limits. Compliance testing for CO emissions shall be conducted in accordance with approved EPA reference methods as presented in Condition 29 of this permit, or other procedures approved in advance by the Regional Air Compliance Manager of the DEQ's NRO. (9 VAC 5-80-110)
- 26. Fuel Burning Equipment Requirements (Emission Units EN01 and EN02) Monitoring Periodic Monitoring: NO_x, CO, VOC, O₂ Emissions The permittee shall measure the emissions of NO_x, CO, VOC, and oxygen (O₂) in the exhaust gas stream from each engine at least once every six month period. NO_x emissions shall represent the combined measured emissions of NO and NO₂, and shall be reported collectively as NO₂. Emissions shall be reported in appropriate units to demonstrate compliance with the emission limits established in Condition 18 of this permit. The testing may be conducted using portable analyzer test methods and procedures that shall be approved in advance by DEQ. The details of the tests are to be arranged with the Regional Air Compliance Manager of the DEQ's NRO.
 - a. The permittee shall document all process parameters necessary to determine engine performance with respect to the emission limits and standards of this permit during the periodic emissions testing on each engine conducted in accordance with

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Condition 27. At a minimum, the following process parameters shall be monitored and recorded for each test:

- 1) The work performed by the engine tested, measured or reported in Hp-hrs;
- 2) The amount of fuel consumed by the engine during the emissions measurement;
- 3) Other information necessary to determine emission factors for the engine;
- 4) Actual duration of the measurement.
- b. If the measured emission rate of NO_x or CO exceeds the emission standard for the respective pollutant, the permittee shall:
 - 1) Verify that the engine is operating according to manufacturer's specifications, or other predetermined site-specific acceptable operating conditions. If an engine is not operating properly, the permittee shall take corrective action immediately to reduce emissions to or below the emission standard. The permittee shall document pollutant emission rates within one week of applying corrective action to an engine by measuring the concentration of pollutant(s) in the engine exhaust gases. The measurement shall be conducted in accordance with this condition or other procedures approved in advance by the Regional Air Compliance Manager of the DEQ's NRO.
 - 2) If any corrective action, as stated above, does not rectify the emission excursion, the permittee shall conduct a compliance test for the specific pollutant(s) of concern within thirty days of completing the corrective action on the engine. The compliance testing shall be conducted in accordance with approved EPA reference methods as presented in Condition 29 of this permit, or other procedures approved in advance by the Regional Air Compliance Manager of the DEQ's NRO.

Emissions data collected in accordance with Condition 26 which shows an exceedance of the applicable emission standard may be considered credible evidence of a violation of this permit.

(9 VAC 5-80-110)

27. Fuel Burning Equipment Requirements - (Emission Units EN01 and EN02) - On Site Records - The permittee shall maintain records of all emission data and operating parameters necessary to demonstrate compliance with this permit. The content of and format of such records shall be arranged with the Regional Air Compliance Manager of the DEQ's NRO. These records shall include, but are not limited to:

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- a. The consumption of natural gas by the compressor engines, EN01 and EN02, calculated monthly as the sum of each consecutive twelve-month period;
- b. The actual operating hours for each engine, EN01 and EN02, measured on a monthly basis;
- c. The semi-annual NO_x, CO, VOC and O₂ measurements for the engines, EN01 and EN02;
- d. In accordance with Condition 25, a log of the inlet temperature and pressure drop measurements for each oxidation catalyst system to determine continued catalyst effectiveness. The log should contain, at a minimum, the date, time, and results of each measurement. A copy of the report documenting the establishment of the temperature and pressure indicator ranges shall be maintained on the premises;
- e. The DEQ approved pollutant-specific emission factors and the equations used to demonstrate compliance with Condition 18;
- f. Scheduled and unscheduled maintenance and operator training in accordance with Condition 52.
- g. The occurrence and duration of each malfunction of the air pollution control and monitoring equipment.
- h. Where applicable, compliance for the consecutive twelve-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding eleven months.
- i. Log of maintenance and inspection in accordance with the requirements in Condition 20 shall include the date of the oil change and oil filter change (or oil analysis) and hours of operation since the previous oil change and oil filter change (or oil analysis); date that spark plugs were inspected and the hours of operation since the previous spark plug inspection; date that the hoses and belts were inspected and the hours of operation since the previous hose and belt inspection.

These records shall be available for inspection by the DEQ and shall be current for the most recent five years.

(9 VAC 5-80-110 and Condition 27 of 1/28/2015 NSR Permit)

28. Fuel Burning Equipment Requirements - (Emission Units EN01 and EN02) - Continuing Compliance Testing - At least once during the five-year term of this federal operating permit, the permittee shall conduct an EPA reference method compliance test on the exhaust stack of each engine to determine the compliance status of the engines with

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respect to the applicable NO_x, CO, and VOC limits in Condition 18 of this permit. The compliance testing shall be conducted in accordance with the test methods described in Condition 29 of this permit. The details of the compliance test shall be arranged with the Regional Air Compliance Manager of the DEQ's NRO, including submission of a test protocol at least thirty days prior to the test. (9 VAC 5-80-110)

29. Fuel Burning Equipment Requirements - (Emission Units EN01 and EN02) - Continuing Compliance Testing - Test Methods - Testing conducted in addition to the monitoring specified in this permit shall use the following test methods in accordance with procedures approved by the DEQ as follows:

Pollutant	Test Method (40 CFR Part 60, Appendix A unless otherwise indicated)
NO _x	EPA Method 7, 7E
СО	EPA Method 10
VOC	EPA Methods 18 or 320*, 25, 25a
Visible Emissions	EPA Method 9

^{*} See 40 CFR Part 63, Appendix A (9 VAC 5-80-110)

- 30. Fuel Burning Equipment Requirements (Emission Units EN01 and EN02) Reporting Parameter Monitoring Excursions Reporting of parameter monitoring excursions outside of the established indicator ranges for the oxidation catalyst control system(s) shall be conducted in accordance with the permit deviation reporting procedures in Condition 59. In addition, two copies (one hard copy and one on electronic media) of the test results from any CO testing conducted as a result of an excursion outside of an indicator range for an oxidation catalyst shall be provided to the Regional Air Compliance Manger of the DEQ's NRO within thirty days of conducting the test. (9 VAC 5-80-110)
- 31. Fuel Burning Equipment Requirements (Emission Units EN01 and EN02) Reporting Emissions Excursions Reporting of emission excursions above an applicable emission standard shall be conducted in accordance with the permit deviation reporting procedures in Condition 59. In addition, two copies (one hard copy and one on electronic media) of the test results from any testing conducted as a result of an excursion above an applicable emission standard shall be provided to the Regional Air Compliance Manager of the DEQ's NRO within forty-five days of conducting the test. (9 VAC 5-80-110)

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- 32. Fuel Burning Equipment Requirements (Emission Units EN01 and EN02) Test Results Two copies (one hard copy and one on electronic media) of the compliance test results from the testing required by Condition 28 shall be submitted to the Regional Air Compliance Manager of the DEQ's NRO within sixty days of completing the test. (9 VAC 5-80-110)
- 33. Fuel Burning Equipment Requirements (Emission Units EN01 and EN02) Additional Reporting The general requirements and procedures set forth in Conditions 57 through 60 of this permit shall be followed with respect to additional reporting requirements for the internal combustion engines.
 (9 VAC 5-80-110)

Fuel Burning Equipment Requirements - (Emission Unit AUX01)

- 34. Fuel Burning Equipment Requirements (Emission Unit AUX01) Limitations The engine-generator set, AUX01, shall only be operated in the following modes:
 - a. In situations that arise from sudden and reasonably unforeseeable events where the primary energy or power source is disrupted or disconnected due to conditions beyond the control of an owner or operator of a facility including:
 - 1) A failure of the electrical grid;
 - 2) On-site disaster or equipment failure; or
 - 3) Public service emergencies such as flood, fire, natural disaster, or severe weather conditions.
 - b. For participation in an ISO-declared emergency, where an ISO emergency is:
 - 1) An abnormal system condition requiring manual or automatic action to maintain system frequency, to prevent loss of firm load, equipment damage, or tripping of system elements that could adversely affect the reliability of an electric system or the safety of persons or property;
 - 2) Capacity deficiency or capacity excess conditions;
 - 3) A fuel shortage requiring departure from normal operating procedures in order to minimize the use of such scarce fuel;
 - 4) Abnormal natural events or man-made threats that would require conservative operations to posture the system in a more reliable state; or

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- 5) An abnormal event external to the ISO service territory that may require ISO action.
- c. For periodic maintenance and testing. Operation for maintenance and testing is limited to 100 hours per calendar year by 40 CFR §63.6640 (f).
- d. Total emissions for any twelve month period, calculated as the sum of all emissions from operations under scenarios in Conditions 34.a, 34.b, and 34.c above, shall not exceed the limits stated in Condition 38.
- (9 VAC 5-80-110 and 9 VAC 5-80-1180D)
- Fuel Burning Equipment Requirements (Emission Unit AUX01) Limitations Fuel
 The approved fuel for the auxiliary generator, AUX01, is natural gas as defined in 40
 CFR §72.2. A change in the fuel may require a permit to modify and operate.
 (9 VAC 5-80-110 and Condition 18 of 1/28/2015 NSR Permit)
- 36. Fuel Burning Equipment Requirements (Emission Unit AUX01) Limitations Fuel Throughput The auxiliary generator, AUX01, shall consume no more than 960 thousand cubic feet of natural gas per year, calculated monthly as the sum of each consecutive twelve-month period. See Condition 44.g for recordkeeping requirements to demonstrate compliance with the consecutive twelve-month period.

 (9 VAC 5-80-110 and Condition 21 of 01/28/2015 NSR Permit)
- 37. Fuel Burning Equipment Requirements (Emission Unit AUX01) Limitations Operating Hours The auxiliary generator, AUX01, shall not operate more than 250 hours per year, calculated monthly as the sum of each consecutive twelve-month period. See Condition 44.g for recordkeeping requirements to demonstrate compliance with the consecutive twelve-month period.
 (9 VAC 5-80-110 and Condition 22 of 1/28/2015 NSR Permit)
- 38. Fuel Burning Equipment Requirements (Emission Unit AUX01) Limitations Emission Limits Emissions from the operation of the auxiliary generator, AUX01, shall not exceed the limits specified below:

Pollutant	Emissions Limit	Emissions Limit	Annual Emissions Limit
Nitrogen Oxides (as NO ₂)	2.0 g/bhp-hr*	2.4 lbs/hr*	0.3 tons/yr
Carbon Monoxide		1.8 lbs/hr*	0.2 tons/yr

^{*} Based upon the average of three, 1-hour test runs.

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Annual emissions shall be calculated monthly as the sum of each consecutive twelvemonth period using the actual operating hours or fuel throughput and DEQ approved pollutant-specific emission factors and equations. See Condition 44.g for recordkeeping requirements to demonstrate compliance with the consecutive twelve-month period. (9 VAC 5-80-110 and Condition 25 of 1/28/2015 NSR Permit)

39. Fuel Burning Equipment Requirements - (Emission Unit AUX01) - Limitations Visible Emission Limit - Visible emissions from the auxiliary generator, AUX01, shall not exceed five percent opacity, as determined by EPA Method 9 (reference 40 CFR 60, Appendix A).

(9 VAC 5-80-110 and Condition 26 of 1/28/2015 NSR Permit)

- 40. Fuel Burning Equipment Requirements (Emission Units AUX01) Limitations The permittee shall conduct the following activities on auxiliary engine generator, AUX01:
 - a. Change oil and filter every 500 hours of operation or annually, whichever comes first or utilize an oil analysis program as described in 40 CFR §63.6625 (i) or (j) to extend the specified oil change requirement.
 - b. Inspect spark plugs every 1,000 hours of operation or annually, whichever comes first, and replace as necessary.
 - c. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.

(9 VAC 5-80-110 and 40 CFR §63.6603 (a))

- 41. Fuel Burning Equipment Requirements (Emission Unit AUX01) Limitations The permittee shall:
 - a. Operate and maintain the compressor engines (AUX01) according to the manufacturer's emission-related operation and maintenance instructions; or
 - b. Develop and follow the permittee's own maintenance plan which must provide, to the extent practicable, for the maintenance and operation of the emergency engine driven generator (AUX01) in a manner consistent with good air pollution control practice for minimizing emissions.

(9 VAC 5-80-110, 40 CFR §63.6625(e), and 40 CFR §63.6640(a))

42. Fuel Burning Equipment Requirements - (Emission Units AUX01) - Limitations - The permittee shall operate the auxiliary engine generator, AUX01, according to requirements in 40 CFR. 63.6605.

(9 VAC 5-80-110 and 40 CFR § 63.6605)

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43. Fuel Burning Equipment Requirements - (Emission Units AUX01) - Monitoring - Operating Hours - The auxiliary engine generator shall be equipped with a non-resettable hour meter.

(9 VAC 5-80-110 and 40 CFR § 63.6625(f))

- 44. Fuel Burning Equipment Requirements (Emission Units AUX01) Monitoring and Recordkeeping On Site Records The permittee shall maintain records of all emission data and operating parameters necessary to demonstrate compliance with this permit. The content of and format of such records shall be arranged with the Regional Air Compliance Manager of the DEQ's NRO. These records shall include, but are not limited to:
 - a. The consumption of natural gas by the auxiliary generator, AUX01, calculated monthly as the sum of each consecutive twelve-month period;
 - b. The number of hours of operation of the auxiliary generator, AUX01, calculated monthly as the sum of each consecutive twelve-month period;
 - c. A log of the reasons for operation as specified in Condition 34;
 - d. Occurrences and duration of malfunction of the unit;
 - e. Actions taken during periods of malfunction to minimize emissions including corrective actions to restore malfunctioning process;
 - f. Scheduled and unscheduled maintenance, and operator training in accordance with Condition 52;
 - g. Where applicable, compliance for the consecutive twelve-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding eleven months.

These records shall be available for inspection by the DEQ and shall be current for the most recent five years.

(9 VAC 5-80-110 and Condition 15 of 1/28/2015 NSR Permit)

45. Fuel Burning Equipment Requirements - (Emission Units AUX01) - Testing - If testing is conducted in addition to the monitoring specified in this permit, the permittee shall use the following test methods in accordance with procedures approved by the DEQ as follows:

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Pollutant	Test Method (40 CFR Part 60, Appendix A)
NO _x	EPA Method 7, 7E
СО	EPA Method 10
Visible Emissions	EPA Method 9

(9 VAC 5-80-110)

Fuel Burning Equipment Requirements - (Emission Units B01)

- 46. Fuel Burning Equipment Requirements (Emission Unit B01) Limitations Fuel The approved fuel for the boiler, B01, is pipeline quality natural gas as defined in 40 CFR §72.2. A change in the fuel may require a permit to modify and operate.

 (9 VAC 5-80-110 and Condition 18 of 1/28/2015 NSR Permit)
- 47. Fuel Burning Equipment Requirements (Emission Unit B01) Limitations Fuel Throughput The boiler, B01, shall consume no more than 25 million cubic feet of natural gas per year, calculated monthly as the sum of each consecutive twelve-month period. See Condition 50.c for recordkeeping requirements to demonstrate compliance with the consecutive twelve-month period.
 (9 VAC 5-80-110 and Condition 20 of 1/28/2015 NSR Permit)
- 48. Fuel Burning Equipment Requirements (Emission Unit B01) Limitations Emission Limits Emissions from the operation of the boiler, B01, shall not exceed the limits specified below:

Pollutant	Emissions Limit	Annual Emission Limit
Nitrogen Oxides (as NO ₂)	0.5 lbs/hr *	2.2 tons/yr

- * Based upon the average of three, 1-hour test runs. (9 VAC 5-80-110 and Condition 24 of 1/28/2015 NSR Permit)
- 49. Fuel Burning Equipment Requirements (Emission Unit B01) Limitations Visible Emission Limit Visible emissions from the boiler, B01, shall not exceed five percent opacity, as determined by EPA Method 9 (reference 40 CFR 60, Appendix A). (9 VAC 5-80-110 and Condition 26 of 1/28/2015 NSR Permit)

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- 50. Fuel Burning Equipment Requirements (Emission Unit B01) Limitations
 Monitoring and Recordkeeping On Site Records The permittee shall maintain
 records of all emission data and operating parameters necessary to demonstrate
 compliance with this permit. The content of and format of such records shall be arranged
 with the Regional Air Compliance Manager of the DEQ's NRO. These records shall
 include, but are not limited to:
 - a. The consumption of natural gas by boiler, B01, calculated monthly as the sum of each consecutive twelve-month period;
 - b. Scheduled and unscheduled maintenance and operator training in accordance with Condition 52.
 - c. Where applicable, compliance for the consecutive twelve-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding eleven months.

These records shall be available for inspection by the DEQ and shall be current for the most recent five years.

(9 VAC 5-80-110 and Condition 15 of 1/28/2015 NSR Permit)

51. Fuel Burning Equipment Requirements - (Emission Unit B01) - Limitations - Testing If testing is conducted in addition to the monitoring specified in this permit, the permittee shall use the following test methods in accordance with procedures approved by the DEQ as follows:

Pollutant	Test Method (40 CFR Part 60, Appendix A)
NO _x	EPA Method 7, 7E
Visible Emissions	EPA Method 9

(9 VAC 5-80-110)

Facility-Wide Conditions

. . .

- 52. Facility-Wide Conditions Maintenance/Operating Procedures The permittee shall take the following measures in order to minimize the duration and frequency of excess emissions, with respect to air pollution control equipment, monitoring devices and process equipment which affect such emissions:
 - a. Develop a maintenance schedule and maintain records of all scheduled and unscheduled maintenance.

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- b. Maintain an inventory of spare parts.
- c. Have available written operating procedures for equipment. These procedures shall be based on the manufacturer's recommendations, at a minimum.
- d. Train operators in the proper operation of all such equipment and familiarize the operators with the written operating procedures. The permittee shall maintain records of the training provided including the names of trainees, the date of training and the nature of the training.

Records of maintenance and training shall be maintained on site for a period of five years and shall be made available to DEQ personnel upon request.

(9 VAC 5-80-110 and Condition 29 of 1/28/2015 NSR Permit)

Insignificant Emission Units

53. **Insignificant Emission Units** - The following emission units at the facility are identified in the application as insignificant emission units under 9 VAC 5-80-720:

Emission Unit No.	Emission Unit Description	Citation	Pollutant(s) Emitted (5-80-720 B)	Rated Capacity (5-80-720 C)
HW01	AO Smith Model FSGL40216 hot water heater	9 VAC 5-80-720 C		0.04 MMBtu/hr
PW01	Zep Super Brute Model 906601 parts washer	9 VAC 5-80-720 B	VOC	
PW02	Zep Super Brute Model 906601 parts washer	9 VAC 5-80-720 B	VOC	
TK01	Ethylene glycol storage tank	9 VAC 5-80-720 B	VOC	5,000 gallons
TK02	Floor drain waste storage tank	9 VAC 5-80-720 B	VOC	2,000 gallons
TK03	Reclaim oil storage tank	9 VAC 5-80-720 B	VOC	2,000 gallons
TK04	Waste oil storage tank	9 VAC 5-80-720 B	VOC	2,000 gallons
TK05	Lube oil storage tank	9 VAC 5-80-720 B	VOC	8,000 gallons
TK06	Pipeline fluid storage tank	9 VAC 5-80-720 B	VOC	2,000 gallons

These emission units are presumed to be in compliance with all requirements of the federal Clean Air Act as may apply. Based on this presumption, no monitoring, recordkeeping, or reporting shall be required for these emission units. (9 VAC 5-80-110)

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Permit Shield & Inapplicable Requirements

54. **Permit Shield & Inapplicable Requirements -** Compliance with the provisions of this permit shall be deemed compliance with all applicable requirements in effect as of the permit issuance date as identified in this permit. This permit shield covers only those applicable requirements covered by terms and conditions in this permit and the following requirements which have been specifically identified as being not applicable to this permitted facility:

Citation	Title of Citation	Description of applicability
40 CFR Part 64	Compliance Assurance Monitoring	The Compliance Assurance Monitoring rule applies to pollutant-specific emission units with pre-control device emissions of regulated pollutants exceeding major source thresholds. The units must have control devices in place and applicable requirements for the subject pollutant. The rule requires sources to monitor the operation and maintenance of the control devices to ensure compliance with applicable requirements. The Leesburg Station does not have any emission units which emit pre-control device emissions above the major source thresholds.
40 CFR Part 63, Subpart B	Requirements for Control Technology Determinations for Major Sources in Accordance with Clean Air Act Sections, 112(g) and 112(j)	This subpart establishes the requirements for determining case-by-case maximum achievable control technology standards (MACT) for major sources of hazardous air pollutants which include one or more stationary sources included in a source category or subcategory for which the EPA Administrator has failed to promulgate an emission standard. The Leesburg Station is not a major source of hazardous air pollutants.
40 CFR Part 82	Protection of Stratospheric Ozone	The Leesburg Station does not use any ozone depleting substances regulated by the subject rule.

Nothing in this permit shield shall alter the provisions of § 303 of the federal Clean Air Act, including the authority of the administrator under that section, the liability of the owner for any violation of applicable requirements prior to or at the time of permit issuance, or the ability to obtain information by the administrator pursuant to § 114 of the federal Clean Air Act, (ii) the Board pursuant to § 10.1-1314 or § 10.1-1315 of the

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Virginia Air Pollution Control Law or (iii) the Department pursuant to § 10.1-1307.3 of the Virginia Air Pollution Control Law. (9 VAC 5-80-140)

General Conditions

- 55. General Conditions Federal Enforceability All terms and conditions in this permit are enforceable by the administrator and citizens under the federal Clean Air Act, except those that have been designated as only state-enforceable.

 (9 VAC 5-80-110 N)
- 56. General Conditions Permit Expiration This permit has a fixed term of five years. The expiration date shall be the date five years from the date of issuance. Unless the owner submits a timely and complete application for renewal to the Department consistent with the requirements of 9 VAC 5-80-80, the right of the facility to operate shall be terminated upon permit expiration.
 - a. The owner shall submit an application for renewal at least six months but no earlier than eighteen months prior to the date of permit expiration.
 - b. If an applicant submits a timely and complete application for an initial permit or renewal under this section, the failure of the source to have a permit or the operation of the source without a permit shall not be a violation of Article 1, Part II of 9 VAC 5 Chapter 80, until the Board takes final action on the application under 9 VAC 5-80-150.
 - c. No source shall operate after the time that it is required to submit a timely and complete application under subsections C and D of 9 VAC 5-80-80 for a renewal permit, except in compliance with a permit issued under Article 1, Part II of 9 VAC 5 Chapter 80.
 - d. If an applicant submits a timely and complete application under section 9 VAC 5-80-80 for a permit renewal but the Board fails to issue or deny the renewal permit before the end of the term of the previous permit, (i) the previous permit shall not expire until the renewal permit has been issued or denied and (ii) all the terms and conditions of the previous permit, including any permit shield granted pursuant to 9 VAC 5-80-140, shall remain in effect from the date the application is determined to be complete until the renewal permit is issued or denied.
 - e. The protection under subsections F 1 and F 5 (ii) of section 9 VAC 5-80-80 F shall cease to apply if, subsequent to the completeness determination made pursuant section 9 VAC 5-80-80 D, the applicant fails to submit by the deadline specified in

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writing by the Board any additional information identified as being needed to process the application.

(9 VAC 5-80-80 B, C and F, 9 VAC 5-80-110 D, and 9 VAC 5-80-170 B)

57. General Conditions - Recordkeeping and Reporting -

- a. All records of monitoring information maintained to demonstrate compliance with the terms and conditions of this permit shall contain, where applicable, the following:
 - 1) The date, place as defined in the permit, and time of sampling or measurements.
 - 2) The date(s) analyses were performed.
 - 3) The company or entity that performed the analyses.
 - 4) The analytical techniques or methods used.
 - 5) The results of such analyses.
 - 6) The operating conditions existing at the time of sampling or measurement.
- b. Records of all monitoring data and support information shall be retained for at least five years from the date of the monitoring sample, measurement, report, or application. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by the permit.
- c. The permittee shall submit the results of monitoring contained in any applicable requirement to the DEQ no later than March 1 and September 1 of each calendar year. This report must be signed by a responsible official, consistent with 9 VAC 5-80-80 G, and shall include:
 - 1) The time period included in the report. The time periods to be addressed are January 1 to June 30 and July 1 to December 31.
 - 2) All deviations from permit requirements. For purposes of this permit, deviations include, but are not limited to:
 - (i) Exceedance of emissions limitations or operational restrictions;
 - (ii) Excursions from control device operating parameter requirements, as documented by continuous emission monitoring, periodic monitoring, or

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compliance assurance monitoring which indicates an exceedance of emission limitations or operational restrictions; or

- (iii) Failure to meet monitoring, recordkeeping, or reporting requirements contained in this permit.
- (iv) If there were no deviations from permit conditions during the time period, the permittee shall include a statement in the report that "no deviations from permit requirements occurred during this semi-annual reporting period."

(9 VAC 5-80-110 F)

- 58. General Conditions Annual Compliance Certification Exclusive of any reporting required to assure compliance with the terms and conditions of this permit or as part of a schedule of compliance contained in this permit, the permittee shall submit to EPA and DEQ no later than March 1 each calendar year a certification of compliance with all terms and conditions of this permit including emission limitation standards or work practices. The compliance certification shall comply with such additional requirements that may be specified pursuant to §114(a)(3) and §504(b) of the federal Clean Air Act. This certification shall be signed by a responsible official, consistent with 9 VAC 5-80-80 G, and shall include:
 - a. The time period included in the certification. The time period to be addressed is January 1 to December 31.
 - b. The identification of each term or condition of the permit that is the basis of the certification.
 - c. The compliance status.
 - d. Whether compliance was continuous or intermittent, and if not continuous, documentation of each incident of non-compliance.
 - e. Consistent with subsection 9 VAC 5-80-110 E, the method or methods used for determining the compliance status of the source at the time of certification and over the reporting period.
 - f. Such other facts as the permit may require to determine the compliance status of the source.
 - g. The annual certification to the USEPA shall be submitted in electronic format only. It shall be submitted by e-mail to the following address: <u>R3 APD Permits@epa.gov</u>.

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The permittee shall maintain a copy of the certification on site for five years from submittal of the certification.

(9 VAC 5-80-110 K.5)

- 59. General Conditions Permit Deviation Reporting The permittee shall notify the Regional Air Compliance Manager of the DEQ's Northern Regional Office, within four daytime business hours after discovery of any deviations from permit requirements which may cause excess emissions for more than one hour, including those attributable to upset conditions as may be defined in this permit. In addition, within fourteen days of the discovery, the permittee shall provide a written statement explaining the problem, any corrective actions or preventative measures taken, and the estimated duration of the permit deviation. Owners subject to the requirements of 9 VAC 5-40-50 C and 9 VAC 5-50-50 C are not required to provide the written statement prescribed in this paragraph for facilities subject to the monitoring requirements of 9 VAC 5-40-40 and 9 VAC 5-50-40. The occurrence should also be reported in the next semi-annual compliance monitoring report pursuant to General Condition 58 of this permit.

 (9 VAC 5-80-110 F.2 and 9 VAC 5-80-250)
- 60. General Conditions Failure/Malfunction Reporting In the event that any affected facility or related air pollution control equipment fails or malfunctions in such a manner that may cause excess emissions for more than one hour, the owner shall, as soon as practicable but no later than four daytime business hours after the malfunction is discovered, notify the Regional Air Compliance Manager of the DEQ's Northern Regional Office by electronic communication, facsimile transmission, telephone or telegraph of such failure or malfunction and shall within fourteen days of discovery provide a written statement giving all pertinent facts, including the estimated duration of the breakdown. Owners subject to the requirements of 9 VAC 5-40-50 C and 9 VAC 5-50-50 C are not required to provide the written statement prescribed in this paragraph for facilities subject to the monitoring requirements of 9 VAC 5-40-40 and 9 VAC 5-50-40. When the condition causing the failure or malfunction has been corrected and the equipment is again in operation, the owner shall notify the Director of the Northern Regional Office.
 - a. The emission units that have continuous monitors subject to 9 VAC 5-40-50 C and 9 VAC 5-50-50 C are not subject to the fourteen day written notification.
 - b. The emission units subject to the reporting and the procedure requirements of 9 VAC 5-40-50 C and the procedures of 9 VAC 5-50-50 C are listed below:
 - 1) Dresser Rand Model TLAD8 natural gas-fired IC compressor engines (EN01 and EN02)
 - 2) Solar Taurus 60 Model natural gas-fired turbine (TUR01)

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c. Each owner required to install a continuous monitoring system subject to 9 VAC 5-40-41 or 9 VAC 5-50-410 shall submit a written report of excess emissions (as defined in the applicable emission standard) to the board for every calendar quarter. All quarterly reports shall be postmarked by the 30th day following the end of each calendar quarter and shall include the following information:

- 1) The magnitude of excess emissions computed in accordance with 40 CFR 60.13(h) or 9 VAC 5-40-41 B 6, any conversion factors used, and the date and time of commencement and completion of each period of excess emissions;
- 2) Specific identification of each period of excess emissions that occurs during startups, shutdowns, and malfunctions of the source. The nature and cause of any malfunction (if known), the corrective action taken or preventive measures adopted;
- 3) The date and time identifying each period during which the continuous monitoring system was inoperative except for zero and span checks and the nature of the system repairs or adjustments; and
- 4) When no excess emissions have occurred or the continuous monitoring systems have not been inoperative, repaired or adjusted, such information shall be stated in the report.
- d. All malfunctions of emission units not subject to 9 VAC 5-40-50 C and 9 VAC 5-50-50 C require written reports within fourteen days of the discovery of the malfunction.
 (9 VAC 5-20-180 C and 9 VAC 5-50-50)
- 61. General Conditions Severability The terms of this permit are severable. If any condition, requirement or portion of the permit is held invalid or inapplicable under any circumstance, such invalidity or inapplicability shall not affect or impair the remaining conditions, requirements, or portions of the permit.

 (9 VAC 5-80-110 G.1)
- 62. General Conditions Duty to Comply The permittee shall comply with all terms and conditions of this permit. Any permit noncompliance constitutes a violation of the federal Clean Air Act or the Virginia Air Pollution Control Law or both and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application.

 (9 VAC 5-80-110 G.2)
- 63. General Conditions Need to Halt or Reduce Activity not a Defense It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt

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or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

(9 VAC 5-80-110 G.3)

- 64. General Conditions Permit Modification A physical change in, or change in the method of operation of, this stationary source may be subject to permitting under State Regulations 9 VAC 5-80-50, 9 VAC 5-80-1100, 9 VAC 5-80-1790, or 9 VAC 5-80-2000 and may require a permit modification and/or revisions except as may be authorized in any approved alternative operating scenarios.

 (9 VAC 5-80-190 and 9 VAC 5-80-260)
- 65. General Conditions Property Rights The permit does not convey any property rights of any sort, or any exclusive privilege.
 (9 VAC 5-80-110 G.5)
- 66. General Conditions Duty to Submit Information
 - a. The permittee shall furnish to the Board, within a reasonable time, any information that the Board may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the Board copies of records required to be kept by the permit and, for information claimed to be confidential, the permittee shall furnish such records to the Board along with a claim of confidentiality.
 - b. Any document (including reports) required in a permit condition to be submitted to the Board shall contain a certification by a responsible official that meets the requirements of 9 VAC 5-80-80 G.

(9 VAC 5-80-110 G.6 and 9 VAC 5-80-110 K.1)

67. General Conditions - Duty to Pay Permit Fees - The owner of any source for which a permit under 9 VAC 5-80-50 through 9 VAC 5-80-300 was issued shall pay permit fees consistent with the requirements of 9 VAC 5-80-310 through 9 VAC 5-80-350. The actual emissions covered by the permit program fees for the preceding year shall be calculated by the owner and submitted to the Department by April 15 of each year. The calculations and final amount of emissions are subject to verification and final determination by the Department.

(9 VAC 5-80-110 H and 9 VAC 5-80-340 C.)

68. General Conditions - Fugitive Dust Emission Standards - During the operation of a stationary source or any other building, structure, facility, or installation, no owner or other person shall cause or permit any materials or property to be handled, transported, stored, used, constructed, altered, repaired, or demolished without taking reasonable precautions

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to prevent particulate matter from becoming airborne. Such reasonable precautions may include, but are not limited to, the following:

- a. Use, where possible, of water or chemicals for control of dust in the demolition of existing buildings or structures, construction operations, the grading of roads, or the clearing of land;
- b. Application of asphalt, water, or suitable chemicals on dirt roads, materials stockpiles, and other surfaces which may create airborne dust; the paving of roadways and the maintaining of them in a clean condition;
- c. Installation and use of hoods, fans, and fabric filters to enclose and vent the handling of dusty material. Adequate containment methods shall be employed during sandblasting or other similar operations;
- d. Open equipment for conveying or transporting material likely to create objectionable air pollution when airborne shall be covered or treated in an equally effective manner at all times when in motion; and,
- e. The prompt removal of spilled or tracked dirt or other materials from paved streets and of dried sediments resulting from soil erosion.
 (9 VAC 5-50-90)
- 69. General Conditions Startup, Shutdown, and Malfunction At all times, including periods of startup, shutdown, soot blowing, and malfunction, owners shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with air pollution control practices for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Board, which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source.

 (9 VAC 5-50-20 E)
- 70. General Conditions Alternative Operating Scenarios Contemporaneously with making a change between reasonably anticipated operating scenarios identified in this permit, the permittee shall record in a log at the permitted facility a record of the scenario under which it is operating. The permit shield described in 9 VAC 5-80-140 shall extend to all terms and conditions under each such operating scenario. The terms and conditions of each such alternative scenario shall meet all applicable requirements including the requirements of 9 VAC 5 Chapter 80, Article 1.

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- 71. General Conditions Inspection and Entry Requirements The permittee shall allow DEQ, upon presentation of credentials and other documents as may be required by law, to perform the following:
 - a. Enter upon the premises where the source is located or emissions-related activity is conducted, or where records must be kept under the terms and conditions of the permit.
 - b. Have access to and copy, at reasonable times, any records that must be kept under the terms and conditions of the permit.
 - c. Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit.
 - d. Sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit or applicable requirements.
 (9 VAC 5-80-110 K.2)
- 72. General Conditions Reopening For Cause The permit shall be reopened by the Board if additional federal requirements become applicable to a major source with a remaining permit term of three years or more. Such reopening shall be completed no later than eighteen months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions has been extended pursuant to 9 VAC 5-80-80 F.
 - a. The permit shall be reopened if the Board or the administrator determines that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit.
 - b. The permit shall be reopened if the administrator or the Board determines that the permit must be revised or revoked to assure compliance with the applicable requirements.
 - c. The permit shall not be reopened by the Board if additional applicable state requirements become applicable to a major source prior to the expiration date established under 9 VAC 5-80-110 D.

(9 VAC 5-80-110 L)

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73. General Conditions - Permit Availability - Within five days after receipt of the issued permit, the permittee shall maintain the permit on the premises for which the permit has been issued and shall make the permit immediately available to DEQ upon request. (9 VAC 5-80-150 E)

74. General Conditions - Transfer of Permits -

- a. No person shall transfer a permit from one location to another, unless authorized under 9 VAC 5-80-130, or from one piece of equipment to another.
- b. In the case of a transfer of ownership of a stationary source, the new owner shall comply with any current permit issued to the previous owner. The new owner shall notify the Board of the change in ownership within thirty days of the transfer and shall comply with the requirements of 9 VAC 5-80-200.
- c. In the case of a name change of a stationary source, the owner shall comply with any current permit issued under the previous source name. The owner shall notify the Board of the change in source name within thirty days of the name change and shall comply with the requirements of 9 VAC 5-80-200.

 (9 VAC 5-80-160)

75. General Conditions - Malfunction as an Affirmative Defense -

- a. A malfunction constitutes an affirmative defense to an action brought for noncompliance with technology-based emission limitations if the requirements of paragraph 2 of this condition are met.
- b. The affirmative defense of malfunction shall be demonstrated by the permittee through properly signed, contemporaneous operating logs, or other relevant evidence that show the following:
 - 1) A malfunction occurred and the permittee can identify the cause or causes of the malfunction.
 - 2) The permitted facility was at the time being properly operated.
 - 3) During the period of the malfunction the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards, or other requirements in the permit.
 - 4) The permittee notified the board of the malfunction within two working days following the time when the emission limitations were exceeded due to the malfunction. This notification shall include a description of the malfunction,

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any steps taken to mitigate emissions, and corrective actions taken. The notification may be delivered either orally or in writing. The notification may be delivered by electronic mail, facsimile transmission, telephone, or any other method that allows the permittee to comply with the deadline. This notification fulfills the requirements of 9 VAC 5-80-110 F 2 b to report promptly deviations from permit requirements. This notification does not release the permittee from the malfunction reporting requirement under 9 VAC 5-20-180 C.

- c. In any enforcement proceeding, the permittee seeking to establish the occurrence of a malfunction shall have the burden of proof.
- d. The provisions of this section are in addition to any malfunction, emergency or upset provision contained in any applicable requirement.
 (9 VAC 5-80-250)
- 76. General Conditions Permit Revocation or Termination for Cause A permit may be revoked or terminated prior to its expiration date if the owner knowingly makes material misstatements in the permit application or any amendments thereto or if the permittee violates, fails, neglects or refuses to comply with the terms or conditions of the permit, any applicable requirements, or the applicable provisions of 9 VAC 5 Chapter 80 Article 1. The Board may suspend, under such conditions and for such period of time as the Board may prescribe any permit for any of the grounds for revocation or termination or for any other violations of these regulations.

 (9 VAC 5-80-190 C and 9 VAC 5-80-260)
- 77. General Conditions Duty to Supplement or Correct Application Any applicant who fails to submit any relevant facts or who has submitted incorrect information in a permit application shall, upon becoming aware of such failure or incorrect submittal, promptly submit such supplementary facts or corrections. An applicant shall also provide additional information as necessary to address any requirements that become applicable to the source after the date a complete application was filed but prior to release of a draft permit. (9 VAC 5-80-80 E)
- 78. General Conditions Stratospheric Ozone Protection If the permittee handles or emits one or more Class I or II substances subject to a standard promulgated under or established by Title VI (Stratospheric Ozone Protection) of the federal Clean Air Act, the permittee shall comply with all applicable sections of 40 CFR Part 82, Subparts A to F. (40 CFR Part 82, Subparts A-F)
- 79. General Conditions Asbestos Requirements The permittee shall comply with the requirements of National Emissions Standards for Hazardous Air Pollutants (40 CFR 61) Subpart M, National Emission Standards for Asbestos as it applies to the following:

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Standards for Demolition and Renovation (40 CFR 61.145), Standards for Insulating Materials (40 CFR 61.148), and Standards for Waste Disposal (40 CFR 61.150). (9 VAC 5-60-70 and 9 VAC 5-80-110 A.1)

- 80. General Conditions Accidental Release Prevention If the permittee has more, or will have more than a threshold quantity of a regulated substance in a process, as determined by 40 CFR 68.115, the permittee shall comply with the requirements of 40 CFR Part 68. (40 CFR Part 68)
- 81. General Conditions Changes to Permits for Emissions Trading No permit revision shall be required under any federally approved economic incentives, marketable permits, emissions trading and other similar programs or processes for changes that are provided for in this permit.

 (9 VAC 5-80-110 I)
- 82. **General Conditions Emissions Trading -** Where the trading of emissions increases and decreases within the permitted facility is to occur within the context of this permit and to the extent that the regulations provide for trading such increases and decreases without a case-by-case approval of each emissions trade:
 - a. All terms and conditions required under 9 VAC 5-80-110, except subsection N, shall be included to determine compliance.
 - b. The permit shield described in 9 VAC 5-80-140 shall extend to all terms and conditions that allow such increases and decreases in emissions.
 - c. The owner shall meet all applicable requirements including the requirements of 9 VAC 5-80-50 through 9 VAC 5-80-300.
 (9 VAC 5-80-110 I)